

Report on Lecture Program

On December 15, 2022, the program "Autonomous Robotics through Design Thinking for II Year Students," led by Mr. M. Alagappan, a Final Year student pursuing B.E. in Mechanical Engineering at A.V.C. College of Engineering, aimed to introduce second-year students to autonomous robotics while integrating principles of design thinking. Beginning with an overview of robotics fundamentals, including sensors, actuators, and programming languages, the program facilitated hands-on sessions where participants assembled, programmed, and tested autonomous robots. Mr. Alagappan conducted a design thinking workshop, emphasizing empathy, ideation, prototyping, and testing, to stimulate creativity and innovation among students. Through project work, students applied design thinking principles to identify real-world problems and develop prototype robots as solutions. Presentations at the program's conclusion allowed students to showcase their projects and receive feedback, enhancing their understanding of robotics concepts, practical skills, teamwork, collaboration, and presentation abilities. Overall, the program successfully merged theoretical knowledge with practical experience, fostering a holistic approach to autonomous robotics development.